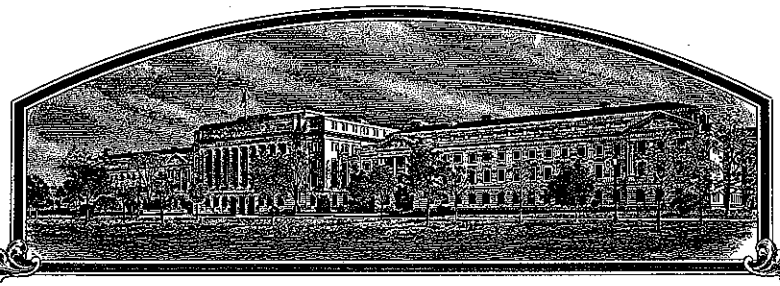


No. 200600228

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Enza Zaden Beheer B.V.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Tellmark'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and eight.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions*

Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER
ENZA ZADEN BEHEER B.V.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
14.2063

3. VARIETY NAME
TELLMARK

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
POSTBUS 7, 1600 AA ENKHUIZEN
HALING 1e, 1602 DB ENKHUIZEN
THE NETHERLANDS

5. TELEPHONE *(Include area code)*
+.31.228.315.844

6. FAX *(Include area code)*
+.31.228.315.854

FOR OFFICIAL USE ONLY

PVPO NUMBER
200600228

FILING DATE
June 7, 2006

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
CORPORATION

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
NOORD-HOLLAND

9. DATE OF INCORPORATION
1938

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*
ENZA ZADEN RESEARCH USA, INC
ATTN: MEL HOLLAND
PO BOX 866
SAN JUAN BAUTISTA, CA 95045

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 4,382 —
DATE 6/7/06

CERTIFICATION FEE:
$ 768 —
DATE 4/15/08

11. TELEPHONE *(Include area code)*
831-623.4644

12. FAX *(Include area code)*
831-623.1746

13. E-MAIL
mholland@ix.netcom.com

14. CROP KIND *(Common Name)*
LETTUCE

16. FAMILY NAME *(Botanical)*
COMPOSITAE

15. GENUS AND SPECIES NAME OF CROP
LACTUCA SATIVA L.

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☒ NO

18. DOES THE VARIETY CONTAIN ANY TRANSGENES? ***(OPTIONAL)***
☐ YES ☒ NO
IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION. _____

19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED
(Follow instructions on reverse)

a. ☑ Exhibit A. Origin and Breeding History of the Variety
b. ☑ Exhibit B. Statement of Distinctness
c. ☑ Exhibit C. Objective Description of Variety
d. ☑ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☑ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☑ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 21 and 22 below)* ☒ NO *(If "no", go to item 23)*

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?
☐ YES ☐ NO
IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☒ YES ☐ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☒ YES ☐ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
NAME *(Please print or type)* V. LAMBALK		NAME *(Please print or type)*	
CAPACITY OR TITLE DIRECTOR	DATE 06/05/2006	CAPACITY OR TITLE	DATE

(See reverse for instructions and information collection burden statement)

200600228

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable *(in the sense that it will reproduce an entire plant)* tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for $4,382 ($518 filing fee and $3,864 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice).* **NEW:** With the application for a seed reproduced variety **or by direct deposit soon after filing**, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to **reproduce** the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of $768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. *(See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)*

Plant Variety Protection Office
Telephone: (301) 504-5518 **FAX:** (301) 504-5291
General E-mail: PVPOmail@usda.gov
Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:
To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:
(1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified

19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

(1) identify these varieties and state all differences objectively;
(2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*

19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

20. If "Yes" is specified *(seed of this variety be sold by variety name only, as a class of certified seed)*, the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See Regulations and Rules of Practice, Section 97.103).*

23. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

24. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

22. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

23. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

FIRST DATE OF SALES IN US : 06/10/2005

24. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

HALLMARK, P.V.P. US, #9800266, DATE ISSUED: 09/25/2003

TELLURIDE, P.V.P. US, #200300168, DATE ISSUED: 07/26/2005

(revised)

Exhibit A: Origin and Breeding History of 'Tellmark', (CS14.2063)

'Tellmark', (CS14.2063)

Female Male
'Hallmark'-----X----- 'Telluride'- (August 1999)

F_1--- Twenty four (24) seeds of the cross were tested with *Bremia lactucae*, pathotype CA-V. An eight (8) plant mass and three (3) single plant selections were made for a seed increase. (February 2000)

F_2--- Seeds from the mass and single plant selection were sown (August 2000) on corky root (*Sphingomonas suberifaciens*) infested test plots in Salinas, California. Eight (8) plants from the mass were selected (October 2000) and transferred to the greenhouse at the company facility in San Juan Bautista, California for seed increase.

F_3---Selected plants were tested for resistance to *Bremia lactucae*, pathotype CA-V and Twelve (12) single plant selections were saved for seed increase.(March 2001)

F_4--- Seeds of the selections above were sown (August 2001) on a corky root infested test plot in Salinas, California. Sixteen (16) single plant selections were made (October 2001) and transferred to the company greenhouses in San Juan Bautista, California for seed increase.

F_5--- Seed from the selected plants were sown at the company trial grounds in San Juan Bautista, California (May 2002). One line from the seed increase above looked uniform for type with better size and type and 8 single plant selections were made for seed increase at the company facilities.

F_6--- Seed from six (6) of the single plant selections were sown at leased trial plots at Griffith, NSW, Australia (October 2002). Two lines were uniform for size, type and maturity. Twenty-five (25) plants of each line were selected for seed increase and trials. The two lines were tested in 2003 as CS14.2063 and CS14.2064. Seed of both lines were tested and found to be resistant for *Bremia lactucae*, pathotype CA-V. Molecular marker tests were conducted and confirmed the presence of the marker for the resistance factor to *Bremia lactucae*, pathotypes, CA-I through CA-VI. Bioassays and molecular marker tests confirmed resistance to corky root (*Sphingomonas suberifaciens*).

F_7--- Trials of CS14.2063 were conducted at the company trial facilities and commercial lettuce production fields in the Salinas Valley of California. CS14.2063 was selected for seed increase for larger commercial trials. Twenty five plants (25) were selected at the company facility in San Juan Bautista, California for foundation seed (June 2003). The foundation seed was tested with bioassays and molecular markers to confirm resistance to corky root and *Bremia lactucae*, pathotypes CA-I through CA-VI.

(revised)

F_8---The foundation seed was sown in October 2003 for advanced commercial trials and sales at Hillston, NSW, Australia and rogued for type by the research staff.

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criteria for cv.'Tellmark' were:

1. A cultivar with uniformity larger frame, head diameter and shorter core when compared to 'Telluride'
2. Resistance to *Bremia lactucae*, pathotype, CA-I through CA-VI where 'Hallmark' is susceptible to CA-V and CA-VI.

In three cycles of seed increase we have noted a large non-heading, dark green variant at the rate of one plant per 5,000 plants. This is well within the range of variants noted for most 'Salinas- type' icebergs. After two generations of reproduction we believe this variety is uniform and stable for type.

(revised)

Exhibit B: Novelty Statement of Lettuce cv. 'Tellmark', (CS14.2063)

'Tellmark' is a vigorous, crisphead lettuce cultivar adapted to Coastal California. Its optimum sowing period is from February through August in Coastal California. 'Tellmark' has black seed and is resistant to *Bremia lactucae*, pathotypes CA-I through CA-VI (Tables 2a, b, 3). 'Tellmark' is resistant to corky root (*Sphingomonas suberifaciens*) and contains the gene *cor* (Tables 4, 5).

'Tellmark' is phenotypically distinct from its most similar commercial cultivar, 'Telluride'. 'Tellmark' has a significantly larger frame diameter at the 95% confidence level with means ranging from 52.2 to 62.6cm compared to 'Telluride' with means ranging from 48.8 to 54.5cm in 4 of 4 tests(Table 1). 'Tellmark' has a significantly larger head diameter at the 95% confidence level with means ranging from 12.8 to 15.9 cm compared to 'Telluride' with means ranging from 12.8 to 14.1cm in 3 of 4 tests (Table 1). 'Tellmark' has a significantly shorter core length at the 95% confidence level with means ranging from 23.8 to 38.4mm compared to 'Telluride' with means ranging from 28.3 to 46.9mm in 3 of 4 tests (Table 1). 'Tellmark' is lighter green in color than 'Telluride' 137C vs. 138A respectively (RHS color chart). The head shape of 'Tellmark' is slightly flattened while the head shape of 'Telluride' is spherical. Leaf blistering is absent/slight on 'Tellmark' while moderate on 'Telluride'.

'Tellmark' is resistant to *Bremia lactucae*, pathotypes CA-V and CA-VI whereas the cultivar 'Hallmark' is susceptible (Tables 2a, b, 3).

Exhibit C

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
Lettuce *(Lactuca sativa* L.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ENZA ZADEN BEHEER B.V.	14.2063	TELLMARK

ADDRESS *(Street and No. or RD No., City, State, Zip Code, and Country)*
POST BUS 7, 1600 AA ENKHUIZEN
HALING 1E, 1602 DB ENKHUIZEN
THE NETHERLANDS

FOR OFFICIAL USE ONLY
PVPO NUMBER 20060228

Place the appropriate number that describes the varietal character in the boxes below. Place a zero in the first box (e.g. [0][9][9] or [0][9]) when number is either 99 or less or 9 or less. Measured data should be the mean of an appropriate number (at least 20) of well space plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The Location of the Test Area is:	Color System Used:
SAN JUAN BAUTISTA, SALINAS, SANTA MARIA - CA	RHS

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties, which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Application Variety (a1) TELLMARK Most Similar Variety (c1) TELLURIDE

Standard Regional Check Variety (c2) HALLMARK

1. PLANT TYPE: (See List of Suggested Check Varieties on Page 8)

01 = Cutting/Leaf
02 = Butterhead
03 = Bibb
04 = Cos or Romaine
05 = Great Lakes Group
06 = Vanguard Group
07 = Salinas Group
08 = Eastern (Ithaca) Group
09 = Stem
10 = Latin
11 = Other (Specify) _____

(a1) [0][7] (c1) [0][7] (c2) [0][7]

2. SEED:

COLOR (1 = White (Silver Gray), 2 = Black (Grey Brown), 3 = Brown (Amber))
(a1) [2] (c1) [2] (c2) [2]

LIGHT DORMANCY (1 = Light Required, 2 = Light Not Required)
(a1) [2] (c1) [2] (c2) [2]

HEAT DORMANCY (1 = Susceptible, 2 = Not Susceptible)
(a1) [2] (c1) [2] (c2) [1]

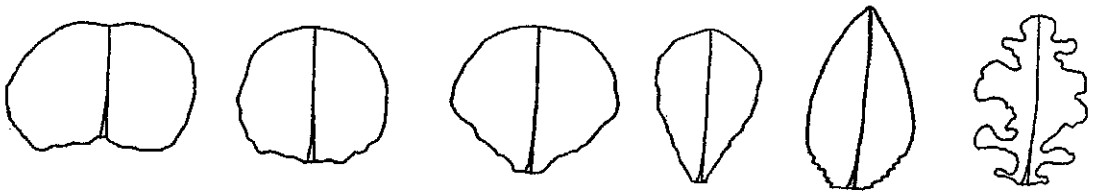
3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day-old seedling grown under optimal conditions.

SHAPE OF COTYLEDONS: 1 = Broad 2 = Intermediate 3 = Spatulate
(a1) [2] (c1) [2] (c2) [2]

SHAPE OF FOURTH LEAF: (a1) [4] (c1) [4] (c2) [3]

6

3. COTYLEDON TO FOURTH LEAF STAGE: (continued)



1. Transverse oval 2. Round 3. Oval 4. Elongated 5. Lanceolate 6. Pinnately lobed

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

(a1) 13 (c1) 15 (c2) 14

APICAL MARGIN:
1 = Entire
2 = Crenate/Gnawed
3 = Finely Dentate
4 = Moderately Dentate
5 = Coarsely Dentate
6 = Incised
7 = Lobed
8 = Other (Specify) _____

(a1) 2 (c1) 1 (c2) 1

BASAL MARGIN: (Use the options for Apical Margin above)

(a1) 4 (c1) 4 (c2) 5

UNDULATION: 1 = Flat 2 = Slight 3 = Medium 4 = Marked

(a1) 2 (c1) 2 (c2) 3

GREEN COLOR:
1 = Yellow Green
2 = Light Green
3 = Medium Green
4 = Dark Green
5 = Blue Green
6 = Silver Green
7 = Grey Green

(a1) 3 (c1) 4 (c2) 3

ANTHOCYANIN:

DISTRIBUTION:
1 = Absent
2 = Margin Only
3 = Spotted
4 = Throughout
5 = Other (Specify) _____

(a1) 1 (c1) 1 (c2) 1

CONCENTRATION: 1 = Light 2 = Moderate 3 = Intense

(a1) X (c1) X (c2) X

ROLLING: 1 = Absent 2 = Present

(a1) 1 (c1) 1 (c2) 1

CUPPING: 1 = Uncupped 2 = Slight 3 = Markedly

(a1) 1 (c1) 1 (c2) 2

REFLEXING: 1 = None 2 = Apical Margin 3 = Lateral Margins

(a1) 1 (c1) 1 (c2) 1

7

4. MATURE LEAVES (Observe Harvest-Mature Outer Leaves)

NOTE: Provide color photo of a harvest-mature leaf which accurately shows color and margin characteristics.

MARGIN:

INCISION DEPTH: (deepest penetration of the margin) 1 = Absent/Shallow (Dark Green Boston) 2 = Moderate (Vanguard) 3 = Deep (Great Lakes 659)

(a1) [2] (c1) [2] (c2) [2]

INDENTATION: (Finest divisions of the margin)

1 = Entire (Dark Green Boston)
2 = Shallowly Dentate (Great Lakes 65)
3 = Deeply Dentate (Great Lakes 659)
4 = Crenate (Vanguard)
5 = Other (Specify) _____

(a1) [4] (c1) [4] (c2) [2]

UNDULATIONS OF THE APICAL MARGIN: 1 = Absent/Slight (Dark Green Boston) 2 = Moderate (Vanguard) 3 = Strong (Great Lakes 659)

(a1) [2] (c1) [2] (c2) [2]

GREEN COLOR: 1 = Very Light Green (Bibb) 2 = Light Green (Minetto) 3 = Medium Green (Great Lakes) 4 = Dark Green (Vanguard) 5 = Very Dark Green 6 = Other (Specify) _____

(a1) [3] (c1) [4] (c2) [3]

ANTHOCYANIN:

DISTRIBUTION: 1 = Absent 2 = Margin Only (Big Boston) 3 = Spotted (California Cream Butter) 4 = Throughout (Prize Head) 5 = Other (Specify) _____

(a1) [1] (c1) [1] (c2) [1]

CONCENTRATION: 1 = Light (Iceberg) 2 = Moderate (Prize Head) 3 = Intense (Ruby)

(a1) [X] (c1) [X] (c2) [X]

SIZE: 1 = Small 2= Medium 3 = Large

(a1) [3] (c1) [2] (c2) [3]

GLOSSINESS: 1 = Dull (Vanguard) 2 = Moderate (Salinas) 3 = Glossy (Great Lakes)

(a1) [02] (c1) [02] (c2) [02]

BLISTERING: 1 = Absent/Slight (Salinas) 2 = Moderate (Vanguard) 3 = Strong (Prize Head)

(a1) [01] (c1) [02] (c2) [01]

LEAF THICKNESS: 1 = Thin 2 = Intermediate 3 = Thick

(a1) [03] (c1) [02] (c2) [03]

TRICHOMES: 1 = Absent (Smooth) 2 = Present (Spiny)

(a1) [01] (c1) [01] (c2) [01]

5. PLANT:

SPREAD OF FRAME LEAVES: (a1) [56] cm (c1) [51] cm (c2) [52] cm

8

5. PLANT: (continued)

HEAD DIAMETER: (Market Trimmed with Single Cap Leaf)

(a1) 14 cm (c1) 13 cm (c2) 14 cm

HEAD SHAPE: 1 = Flattened 2 = Slightly Flattened 3 = Spherical 4 = Elongate 5 = Non-Heading
6 = Other (Specify)_____

(a1) 02 (c1) 03 (c2) 03

HEAD SIZE CLASS: 1 = Small 2 = Medium 3= Large

(a1) 03 (c1) 02 (c2) 03

HEAD PER CARTON:

(a1) 24 (c1) 24 (c2) 24

HEAD WEIGHT:

(a1) 714 g. (c1) 664 g. (c2) 691 g.

HEAD FIRMNESS: 1 = Loose 2 = Moderate 3= Firm 4 = Very Firm

(a1) 2 (c1) 3 (c2) 3

6. BUTT:

SHAPE: 1 = Slightly Concave 2 = Flat 3 = Rounded

(a1) 2 (c1) 2 (c2) 2

MIDRIB: 1 = Flattened (Salinas) 2 = Moderately Raised 3 = Prominently Raised (Great Lakes 659)

(a1) 1 (c1) 1 (c2) 1

7. CORE:

DIAMETER AT BASE OF HEAD:

(a1) 32 mm (c1) 32 mm (c2) 31 mm

RATIO OF HEAD DIAMETER/CORE DIAMETER:

(a1) 4.5 (c1) 4.0 (c2) 4.3

CORE HEIGHT FROM BASE OF HEAD TO APEX:

(a1) 39 mm (c1) 42 mm (c2) 37 mm

8. BOLTING: (Give First Water Date: 05/24/2005) NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

NUMBER OF DAYS FROM FIRST WATER DATE TO SEED STALK EMERGENCE: (summer conditions)

(a1) 96 (c1) 93 (c2) 91

BOLTING CLASS: 1 = Very Slow 2 = Slow 3 = Medium 4 = Rapid 5 = Very Rapid

(a1) 2 (c1) 2 (c2) 3

HEIGHT OF MATURE SEED STALK:

(a1) 114 (c1) 121 (c2) 97

(a1) cm (c1) cm (c2) cm

8. BOLTING: (continued)

SPREAD OF BOLTER PLANT: (At widest point)

(a1) 23 cm (c1) 22 cm (c2) 18 cm

BOLTER LEAVES: 1 = Straight 2 = Curved

(a1) 2 (c1) 2 (c2) 1

MARGIN: 1 = Entire 2 = Dentate

(a1) 2 (c1) 2 (c2) 2

COLOR: 1 = Light Green 2 = Medium Green 3 = Dark Green

(a1) 2 (c1) 2 (c2) 2

BOLTER HABIT:

TERMINAL INFLORESCENCE: 1 = Absent 2 = Present

(a1) 2 (c1) 2 (c2) 2

LATERAL SHOOTS: 1 = Absent 2 = Present

(a1) 2 (c1) 2 (c2) 1

BASAL SIDE SHOOTS: 1 = Absent 2 = Present

(a1) 1 (c1) 1 (c2) 1

9. MATURITY: (earliness of harvest-mature head formation)

NOTE: Complete this section for at least one season.

SEASON	APPLICATION VARIETY No. of Days[1]			MOST SIMILAR VARIETY No. of Days[1]			STANDARD REGIONAL CHECK VARIETY No. of Days[1]		
Spring	A 98	B 71	C 71	A 96	B 70	C 69	A 96	B 70	C –
Summer	A 74	B 69	C 67	A 74	B 69	C 67	A 74	B –	C –
Fall	–	–	–	–	–	–	–	–	–
Winter	A 126	–	–	A 121	–	–	A 126	–	–

[1] *First Water Date to Harvest*

Give Planting Date(s) and Location(s):

Spring: A: 2/13/06 (SALINAS, CA), B: 4/21/05 (SANTA MARIA, CA), C: 4/14/04 (SALINAS, CA)

Summer: A: 6/18/05 (SAN JUAN BAUTISTA), B: 5/20/05 (SALINAS, CA), C: 6/1/04 (SALINAS, CA)

Fall: –

Winter: A: 12/16/05 (SAN JUAN BAUTISTA, CA)

10. ADAPTATION:

PRIMARY REGIONS OF ADAPTATION (tested and proven adapted):

0 = Not Tested 1 = Not Adapted 2 = Adapted

2	Southwest (CA and/or AZ desert)	2	West Coast	0	Northeast
0	North Central	0	Southeast	0	Other (Specify) _____

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10. ADAPTATION: (Continued)

SEASON:

2	Spring	(Area HURON, YUMA)		2	Fall	(Area SALINAS, SANTA MARIA,)
2	Summer	(Area SALINAS, SANTA MARIA)		1	Winter	(Area –)

0	**GREENHOUSE:**	0 = Not Tested	1 = Not Adapted	2 = Adapted
1	**SOIL TYPE:**	1 = Mineral	2 = Organic	3 = Both

11. VIRAL DISEASES:

1 = Immune 3 = Resistant 5 = Moderately Resistant/Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

Big Vein	(a1)	7	(c1)	7	(c2)	7
Lettuce Mosaic	(a1)	7	(c1)	7	(c2)	7
Cucumber Mosaic	(a1)	0	(c1)	0	(c2)	0
Tomato Bushy Stunt, cause of dieback	(a1)	0	(c1)	0	(c2)	0
Turnip Mosaic	(a1)	0	(c1)	0	(c2)	0
Beet Western Yellows	(a1)	0	(c1)	0	(c2)	0
Lettuce Infectious Yellows	(a1)	0	(c1)	0	(c2)	0
Other (Specify) _____	(a1)	0	(c1)	0	(c2)	0

0 = not tested

12. FUNGAL/BACTERIAL DISEASES:

1 = Immune 3 = Resistant 5 = Moderately Resistant/Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

Corky Root Rot (Races: CA I)	(a1)	3	(c1)	3	(c2)	3
Downy Mildew (Races: ~~CA I and VI~~ CA I through VI)	(a1)	3	(c1)	3	(c2)	7
Powdery Mildew	(a1)	0	(c1)	0	(c2)	0
Sclerotinia Drop	(a1)	7	(c1)	7	(c2)	7
Bacterial Soft Rot (*Pseudomonas* spp. and others)	(a1)	0	(c1)	0	(c2)	0
Botrytis (Grey Mold)	(a1)	0	(c1)	0	(c2)	0
Verticillium Wilt	(a1)	0	(c1)	0	(c2)	0
Bacterial Leaf Spot	(a1)	0	(c1)	0	(c2)	0
Anthracnose	(a1)	0	(c1)	0	(c2)	0
Other (Specify) _____	(a1)	0	(c1)	0	(c2)	0

0 = not tested

RAD 12/18/07

13. INSECTS:

1 = Immune 3 = Resistant 5 = Moderately Resistant/Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

Cabbage Loopers	(a1)	0	(c1)	7	(c2)	0
Root Aphids	(a1)	0	(c1)	0	(c2)	0
Green Peach Aphid	(a1)	7	(c1)	7	(c2)	7
Lettuce Aphid	(a1)	7	(c1)	7	(c2)	7

0 = not tested

11

Pea Leafminer	(a1)	0	(c1)	0	(c2)	0
Other (Specify) _____	(a1)	0	(c1)	0	(c2)	0

14. PHYSIOLOGICAL STRESSES:

1 = Immune 3 = Resistant 5 = Moderately Resistant/Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

Tipburn	(a1)	5	(c1)	5	(c2)	5
Heat	(a1)	0	(c1)	0	(c2)	0
Drought	(a1)	0	(c1)	0	(c2)	0
Cold	(a1)	0	(c1)	0	(c2)	0
Salt	(a1)	0	(c1)	0	(c2)	0
Brown Rib (Rib Discoloration, Rib Blight)	(a1)	5	(c1)	5	(c2)	5
Other (Specify) _____	(a1)	0	(c1)	0	(c2)	0

0 = not tested

15. POST HARVEST STRESS:

1 = Immune 3 = Resistant 5 = Moderately Resistant/Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

Pink Rib	(a1)	5	(c1)	5	(c2)	7
Russet Spotting	(a1)	5	(c1)	5	(c2)	7
Rusty Brown Discoloration	(a1)	5	(c1)	5	(c2)	0
Internal Rib Necrosis (Blackheart, Grey Rib, Grey Streak)	(a1)	5	(c1)	5	(c2)	0
Brown Stain	(a1)	5	(c1)	5	(c2)	0

0 = not tested

16. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

17. COMMENTS:

SUGGESTED CHECK VARIETIES

	TYPE	CHECK VARIETY
1	Cutting/Leaf	Waldmann's Green
2	Butterhead	Dark Green Boston
3	Bibb	Bibb
4	Cos or Romain	Parris Island
5	Great Lakes Group	Great Lakes 659-700
6	Vanguard Group	Vanguard
7	Salinas Group	Salinas
8	Eastern Group	Ithaca
9	Stem	Celtuce
10	Latin	Little Gem

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Ryder, E.J., 1999, *Lettuce, Endive, and Chicory*, CABI Publications, Wallingford, UK.

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Exhibit C - Tellmark

Fourth leaf from 20 day-old seedlings of 'Tellmark'

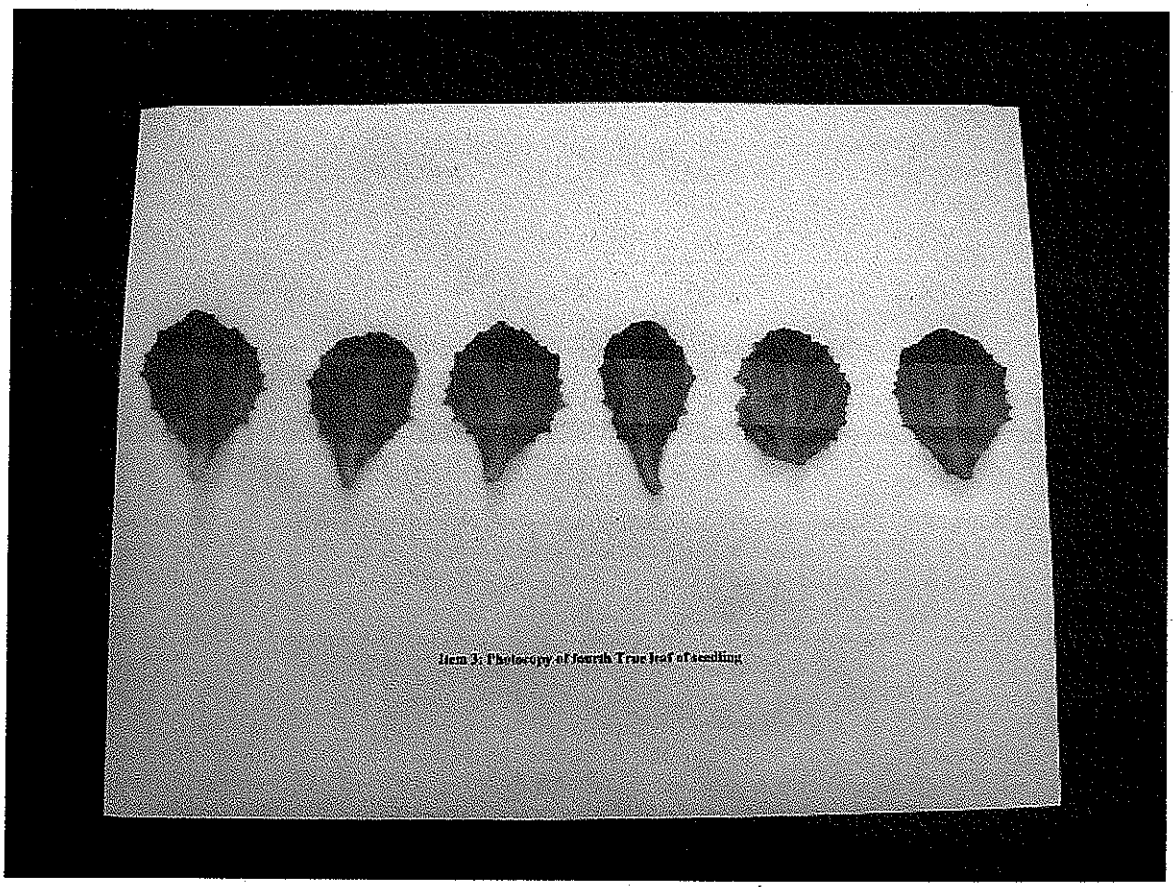
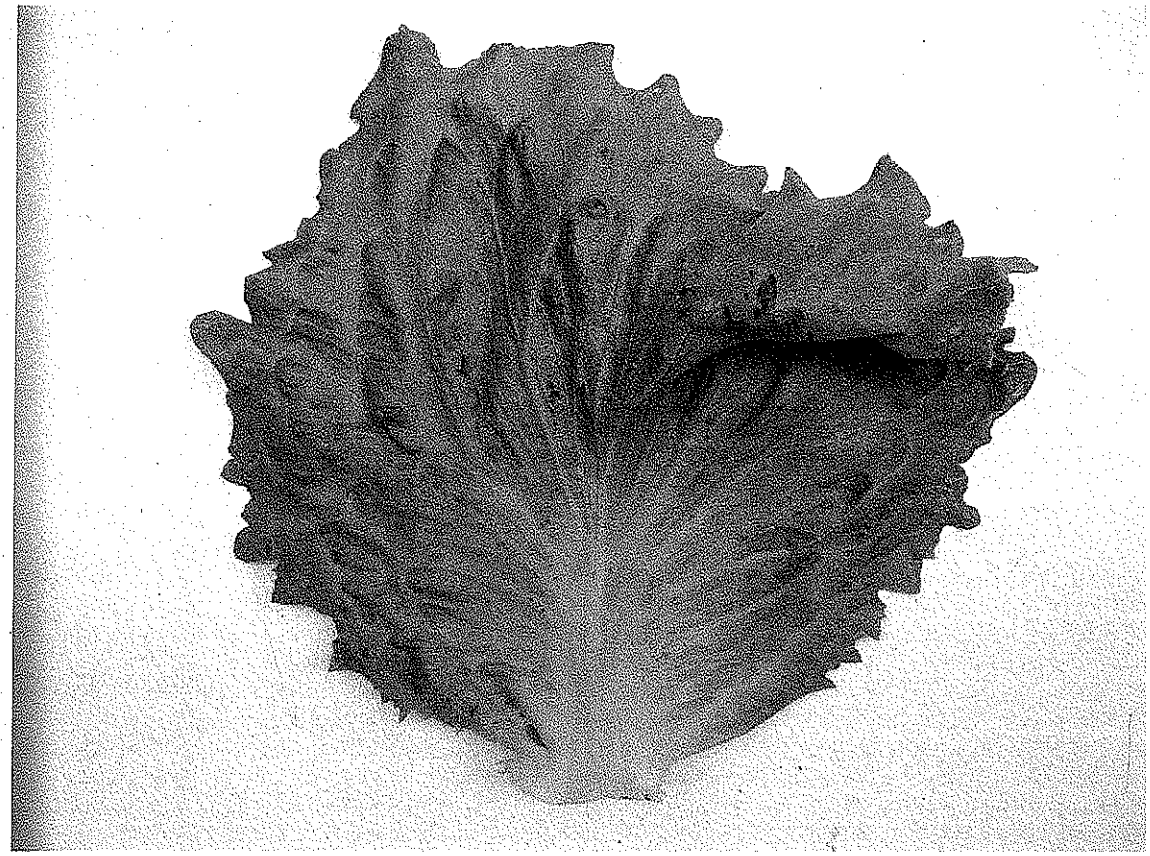


Exhibit C - Tellmark

Frame leaves of 'Tellmark'



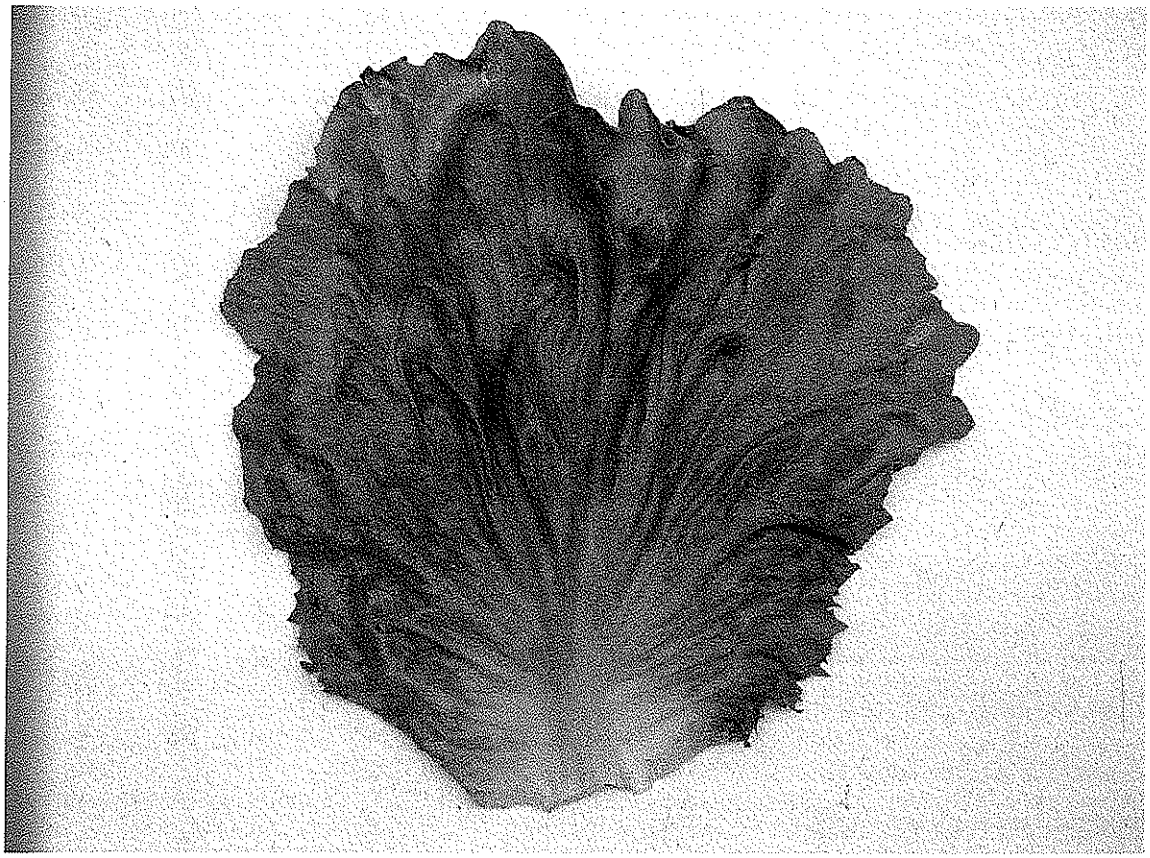


Exhibit C - Tellmark

Heads of 'Tellmark'

TELMARK

Exhibit D - Tellmark

Table 2a: Bremia lactucae Screening- Isolate CA-V

	Rep1		Rep 2		Rep 3				
Cultivar	+	-	+	-	+	-	# Resistant	# susceptible	% Resistant
Tellmark-foundation seed	0	16	0	16	0	16	48	0	100%
Tellmark-production seed 2004	0	16	0	16	0	16	48	0	100%
Tellmark-production seed 2005	0	16	0	16	0	16	48	0	100%
Telluride	0	16	0	16	0	16	48	0	100%
Hallmark	16	0	16	0	16	0	0	48	0%

Table 2b: Bremia lactucae Screening- Isolate CA-VI

	Rep1		Rep 2		Rep 3				
Cultivar	+	-	+	-	+	-	# Resistant	# susceptible	% Resistant
Tellmark-foundation seed	0	24	0	24	0	24	72	0	100%
Tellmark-production seed 2004	0	24	0	24	0	24	72	0	100%
Tellmark-production seed 2005	0	24	0	24	0	24	72	0	100%
Telluride	0	24	0	24	0	24	72	0	100%
Hallmark	24	0	24	0	24	0	0	72	0%

Table 3: Molecular Marker for Bremia Resistance in Telluride

Cultivar	Y/N*
Tellmark-foundation seed	Y
Tellmark-production seed 2004	Y
Tellmark-production seed 2005	Y
Telluride	Y
Hallmark	N

* Y= marker present
N= marker absent

Table 4: Corky Root Bioassay- Sphingomonas suberifaciens-Isolate 'CA-I'

	Rep1		Rep 2		Rep 3				
Cultivar	+	-	+	-	+	-	# Resistant	# susceptible	% Resistant
Tellmark-foundation seed	0	16	0	16	0	16	48	0	100%
Tellmark-production seed 2004	0	16	0	16	0	16	48	0	100%
Tellmark-production seed 2005	0	16	0	16	0	16	48	0	100%
Telluride	0	16	0	16	0	16	48	0	100%
Hallmark	0	16	0	16	0	16	48	0	100%

Table 5: Molecular Marker for *cor* gene

Cultivar	Y/N*
Tellmark-foundation seed	Y
Tellmark-production seed 2004	Y
Tellmark-production seed 2005	Y
Telluride	Y
Hallmark	Y

* Y= marker present
N= marker absent

- Tellmark

Seedling measurements at 4th leaf stage

Plant #	Tellmark			Telluride			Hallmark		
	length (cm)	width (cm)	ratio (l/w*10)	length (cm)	width (cm)	ratio (l/w*10)	length (cm)	width (cm)	ratio (l/w*10)
1	4.45	3.18	14.00	4.13	2.54	16.25	3.81	3.18	12.00
2	4.60	3.81	12.08	4.13	2.86	14.44	3.49	2.54	13.75
3	3.65	2.86	12.78	3.81	2.54	15.00	3.98	2.86	13.93
4	4.13	3.18	13.00	3.18	2.86	11.11	4.13	2.54	16.25
5	5.08	3.33	15.24	4.45	2.86	15.56	3.81	2.54	15.00
6	4.45	3.18	14.00	4.29	2.86	15.00	4.13	2.54	16.25
7	3.65	3.18	11.50	4.29	2.70	15.89	3.81	2.86	13.33
8	4.13	3.18	13.00	4.45	2.54	17.50	4.45	3.02	14.74
9	3.81	3.18	12.00	4.45	2.54	17.50	3.81	1.91	20.00
10	4.45	2.54	17.50	3.81	3.02	12.63	3.81	2.70	14.12
11	4.61	3.34	13.81	3.97	2.54	15.63	3.49	2.70	12.94
12	3.65	2.54	14.38	4.45	2.54	17.50	4.45	2.86	15.56
13	4.45	3.49	12.73	3.81	1.91	20.00	3.49	2.54	13.75
14	3.81	3.18	12.00	4.45	2.70	16.47	4.13	2.54	16.25
15	4.45	3.34	13.33	3.81	2.86	13.33	4.45	2.54	17.50
16	3.65	3.81	9.59	3.97	2.70	14.70	4.13	3.18	13.00
17	4.61	3.81	12.09	3.81	2.86	13.33	3.18	2.70	11.76
18	4.45	3.49	12.73	4.45	2.86	15.56	3.49	2.86	12.22
19	3.81	3.18	12.00	4.45	3.81	11.67	3.81	2.54	15.00
20	4.45	4.13	10.77	3.81	3.18	12.00	3.18	2.86	11.11
Mean	4.22	3.29	**12.93**	4.10	2.76	**15.05**	3.85	2.70	**14.42**

- Tellmark

Statistical Comparison Tellmark vs. Telluride (table 1)

SMA1	Santa Maria, CA	Sow date- 4/21/05	Cut date- 6/30/05	n = 20	F (crit) .05 = 4.10, F (crit) .01 = 7.35
SJB2	San Juan Bautista, CA	Sow date- 6/8/05?	Cut date- 8/22/05	n = 20	F (crit) .05 = 4.10, F (crit) .01 = 7.35
SJB3	San Juan Bautista, CA	Sow Date- 12/16/06	Cut Date- 4/21/06	n = 20	F (crit) .05 = 4.10, F (crit) .01 = 7.35
SAL4	Salinas, CA	Sow Date- 02/13/06	Cut Date- 5/19/06	n = 20	F (crit) .05 = 4.10, F (crit) .01 = 7.35

Trait \ Trial	SMA1		SJB2		SJB3		SAL4	
	Tellmark	Telluride	Tellmark	Telluride	Tellmark	Telluride	Tellmark	Telluride
Spread of Frame Leaves :								
Mean (cm)	57.0	54.5	62.6	51.7	52.2	49.0	53.9	50.3
Std. Dev.	3.1	2.1	3.1	2.4	3.3	3.3	3.7	1.8
ANOVA, F (calc)	8.48 **		154.59 **		8.72 **		15.11 **	
Head Weight :								
Mean (grams)	846.9	793.4	959.7	779.1	522.7	514.4	528.3	570.3
Std. Dev.	161.7	109.9	147.4	130.8	85.4	96.0	109.4	95.2
ANOVA, F (calc)	1.50 ns		16.81 **		0.08 ns		1.67 ns	
Head Diameter :								
Mean (cm)	15.0	13.3	15.9	14.1	12.9	11.8	13.4	13.2
Std. Dev.	0.8	1.1	0.8	1.0	1.1	1.0	0.8	0.7
ANOVA, F (calc)	28.34 **		37.31 **		10.79 **		1.03 ns	
Head Height :								
Mean (cm)	14.0	14.0	16.7	15.1	12.1	11.2	11.7	11.2
Std. Dev.	0.9	0.8	0.8	1.0	0.9	0.8	0.8	0.7
ANOVA, F (calc)	0.01 ns		29.60 **		9.95 **		5.24 *	
Core Diameter :								
Mean (mm)	32.0	35.2	36.7	33.5	30.6	30.3	27.7	30.5
Std. Dev.	4.3	2.0	2.3	2.0	2.5	2.5	3.7	2.4
ANOVA, F (calc)	9.14 **		21.78 **		0.10 ns		8.27 **	
Core Length :								
Mean (mm)	38.4	46.9	67.8	62.1	25.2	28.3	23.8	31.0
Std. Dev.	9.2	7.6	9.5	13.5	4.4	3.9	4.4	7.2
ANOVA, F (calc)	10.28 **		2.35 ns		5.76 *		14.41 **	
Leaf Color :								
RHS Color Standard	137C	138A	137C	138A	137C	138A	137C	138A

(*) statistical significance at probability level of 0.05
(**) statistical significance at probability level of 0.01
(ns) statistical not significant

20060228

- Tellmark

Data Set Plant Charachteristics

SMA1	:	Santa Maria, CA	Sow date- 4/21/05	Evaluation date- 6/30/05
SJB2	:	San Juan Bautista, CA	Sow date- 6/18/05	Evaluation date- 8/22/05
SJB3	:	San Juan Bautista, CA	Sow date- 12/16/06	Evaluation date- 4/21/06
SAL4	:	Salinas, CA	Sow date- 02/13/06	Evaluation date- 5/19/06

Trial#	Plt#	Spread of Frame Leaves (cm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)			Color (RHS)		
		Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark
SMA1	1	53.9	52.3	51.9	787.1	744	698.6	14.8	13	13.6	12.4	13.4	14	23.1	35	30.7	22.4	33.8	60.1			
SMA1	2	51.3	52.9	54.3	584	721.9	732.8	16	13.1	13.6	13.9	14.3	14.9	30.1	34.9	28.1	29.2	41.4	40.2			
SMA1	3	56.3	50.1	50.7	690.3	767.9	722.9	13.7	12.4	13.6	12	14	12.2	24	34.3	33.8	23.1	61.2	52.8			
SMA1	4	54.2	55.7	52.2	882.8	641	656	14.9	12.2	12.8	14	13.4	13	29.1	31.3	34	42	54.4	44.2			
SMA1	5	57.8	55.2	55.5	746.9	807.2	632.6	15.5	14.5	13.1	14.1	14.5	13.2	33.6	37.2	26.2	40.5	54.3	33			
SMA1	6	61.4	54.4	54.5	722.4	893.2	697.1	15.2	13	13.6	14	15.5	13.7	29.3	37.2	33.7	20.7	55	38.4			
SMA1	7	58.4	56.6	55.1	1001.1	988.9	897.5	14.6	14.7	14.4	15.8	13.7	13.4	37.3	35.4	36	43.2	41.2	47.7			
SMA1	8	54.7	56.5	50.7	876.4	598.3	722.7	15	12.5	15	14.1	13	14.1	34	33.4	29.8	42.1	38.5	47.1			
SMA1	9	58.9	54.2	55.3	646.8	825.5	869.2	14	13	15.2	13.2	13.7	13.4	26.2	35.7	35.8	32.4	43.9	49			
SMA1	10	56	53	54.4	1126.5	1020.4	687	14.1	15	13.9	14.3	16.4	14.3	39.9	37	33.1	50.8	41.5	32.6			
SMA1	11	53.4	54	58	624.1	855.1	671.3	14.9	12.3	14.2	14.2	14.3	14.1	31.2	38.1	31.4	39.8	39.9	36.8			
SMA1	12	54.8	54.3	51.3	874.8	789.6	765	13.5	13.9	12.4	14.1	14.4	12.3	35.3	35.2	31.4	38.2	49.8	32.9			
SMA1	13	59.3	56.3	51.5	890	857.9	799.8	16.3	12	13.9	13.5	13.9	12.9	35.2	37.6	34.2	38.7	57.2	56.1			
SMA1	14	62.3	53.9	52.1	1226.5	906.8	843.6	15.9	15.7	14.2	14	13.8	13.6	37.1	38.3	37.3	42.3	45.7	41.4			
SMA1	15	57.4	60	54.6	881.5	771.3	734.3	16.1	14.9	12.6	14.3	14.4	13.4	33.1	34.1	30.6	53.2	49.7	34.7			
SMA1	16	58.7	55.6	50.9	794.2	773.4	729.8	15.4	13.5	14.9	13.4	13	13.7	31	35.2	32.6	35	47.8	38.9			
SMA1	17	52	51.4	58.5	822	606.9	713.4	14.5	13.4	13.4	14.5	12.9	13.6	29.4	32	32.5	51.4	37.8	42.7			
SMA1	18	58.3	55.6	53.7	845.7	768.9	645.7	15.4	12	13	13.2	14.2	13.1	33.4	35.1	33.9	42.2	52.3	25.9			
SMA1	19	60.8	54.7	53.4	1003.9	774.5	636.9	16.2	13.7	13.7	15.2	14	14	34.5	32.6	35.2	44.6	52.8	48.2			
SMA1	20	59.9	53.8	53.1	910.7	754.5	891.5	14.3	12.1	12.8	15.4	13.3	13.5	33.1	34.8	36.6	35.2	39.9	37.9			
Mean		57.0	54.5	53.6	846.9	793.4	737.4	15.0	13.3	13.7	14.0	14.0	13.5	32.0	35.2	32.8	38.4	46.9	42.0	137C	138A	143A
StDev		3.1	2.1	2.3	161.7	109.9	82.7	0.8	1.1	0.8	0.9	0.8	0.6	4.3	2.0	2.8	9.2	7.6	8.7			
SJB2	1	55.3	48.5	49.9	778.9	676.5	1083.9	13.9	14.4	16.4	16.1	14.4	16.1	34.2	32.3	36.8	80.1	42.8	37.1			
SJB2	2	64.5	54.8	60.7	930	926	1253.6	16.4	14.1	17	16	14.6	15.2	36.3	36.1	41.2	61.7	38.7	54.3			
SJB2	3	65.2	51.9	58	1200	552.4	1065.3	16	14.6	15.1	17.4	14.6	15.3	37	30	39.1	72.5	60.1	71.4			
SJB2	4	62.8	51	56.8	1022.7	997.5	538.6	15.8	12.8	15.2	15.7	17	14.7	35.4	37.4	31.7	82.3	63.3	52.5			
SJB2	5	61.9	49.7	60.9	1048.1	726.9	1283.5	14.7	14.1	14.9	16.8	14.8	15.9	40.2	32.4	39.3	88.5	65.5	50.6			
SJB2	6	55.1	53.8	46.8	764.9	888.9	637.8	15.2	16	14.4	16.4	15.1	12.8	38.7	32.7	30.7	76.8	69.4	34.5			
SJB2	7	58.9	50.5	53.8	1172.1	818	815	16.9	13	15.2	17	15.1	14.1	37.2	35.2	37.2	69.9	51.3	41.4			
SJB2	8	63.3	58.1	58.9	752.7	933.8	950	16	14.2	15.4	16.5	16	15.3	36.8	32.5	42.1	57.7	69.8	72.3			
SJB2	9	62.7	50.8	54.5	1040	621.5	1106.3	14.9	12.6	14.8	17.2	13.3	14.8	41	30.7	37.3	56.8	54.6	50.4			
SJB2	10	65.6	53.2	54.2	963.1	762	537.2	16	15.1	13.8	16	14.7	13.1	34.2	33.5	31.5	66.8	47.4	37.8			
SJB2	11	65.7	50.3	53	736.3	688.7	1029.4	16.9	12.6	14.2	17.7	14.8	15.3	38.4	34.5	38.2	68.7	48.2	43.1			

- Tellmark

Data Set Plant Charachteristics (continue)

Trial#	Plt#	Spread of Frame Leaves (cm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)			Color (RHS)		
		Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark
SJB2	12	60.5	52	51.5	856.2	845.6	727.3	16.4	15.3	13.9	16.5	14.9	13.7	36.5	33.7	37.5	66.4	84.4	58.2			
SJB2	13	64.5	48.7	58.7	818.7	705.6	902.1	16.2	13.5	15.5	17.3	15.5	15.6	34.2	32.3	39.1	48.8	70.5	42.2			
SJB2	14	64.9	49.9	55.6	1038.2	795.3	657.1	16	15	14.7	16.4	16	12.1	34.1	31.1	33.8	61.7	63.6	50.5			
SJB2	15	62.8	51.7	56.5	1042.7	779.9	817.1	17	14.4	13.9	16.8	15.2	15.3	38.5	36.8	30.8	66.5	60.9	53.2			
SJB2	16	64.7	49.8	53.4	1015.5	782.9	893.1	16.5	13.4	14.1	18.4	15.9	14.7	37.2	34.5	38.5	67.3	56.8	49.7			
SJB2	17	61.8	52.1	55.3	1007.9	826.3	661.2	15	15.9	14.2	15.9	16.1	12.1	37.3	34.3	32.8	70.4	66.7	34.7			
SJB2	18	63.8	52.5	57.2	1165.8	718.2	1005	17	13.5	17.1	15.5	15	15.5	34.2	34.2	39.3	59.9	70.3	72.4			
SJB2	19	62.5	49	48.9	792.2	539.7	782.6	15.5	13.7	15.9	16.1	13	14.8	32.7	31.8	35	72.6	62.4	37.6			
SJB2	20	65.3	55.2	48	1048.4	995.5	754	15.9	14.2	14	17.7	16.8	14.9	39.3	34.5	31.1	59.9	95.6	35.2			
Mean		62.6	51.7	54.6	959.7	779.1	875.0	15.9	14.1	15.0	16.7	15.1	14.6	36.7	33.5	36.2	67.8	62.1	49.0	137C	138A	143A
Stdev		3.1	2.4	4.1	147.4	130.8	220.0	0.8	1.0	1.0	0.8	1.0	1.2	2.3	2.0	3.7	9.5	13.5	12.3			
SJB3	1	54.8	50.8	51.5	524.5	495.4	575.7	13.2	12.2	11.2	12.8	12.1	11.9	29.2	26.2	30.1	28.4	26.1	22.9			
SJB3	2	51	53.4	46.9	471.1	626.1	530.9	11	13	12.9	11.1	12.7	12.8	31	33.4	25.5	26.7	27.8	36.3			
SJB3	3	47.4	51.8	49.9	456.5	589.4	561.5	10.8	12	11.2	12.7	11.8	12.6	26.2	32.1	28.3	20.1	32.4	34.2			
SJB3	4	52	51.3	49.7	421.7	599.3	518.1	11.2	13.2	10.7	12	11.7	12.4	29.3	31.2	27.8	32.4	29.5	29.9			
SJB3	5	51.8	48.9	47.8	743.5	595.5	561	15	13.3	12.2	12.7	11	13.2	34.2	34.1	33.1	22.7	30.5	35.4			
SJB3	6	56.8	48.2	50.2	641.2	716.1	646.5	14.4	12.7	12.1	13.8	11.5	13	30.5	32.2	31.1	28.6	36.4	33.4			
SJB3	7	49.9	46.5	54.3	624.5	485.7	698.2	13.8	9.9	11.8	12	12	12.7	32.3	30.7	33.8	29.1	31.3	34.3			
SJB3	8	49.5	50.8	54.1	403.5	591.1	619.4	12.5	11.9	12.9	9.7	11.4	14.5	28.4	30.2	29.7	19.9	28.8	41.2			
SJB3	9	49.3	54.2	52.5	399.4	536.7	638.1	13.9	12.7	13	11.2	11.5	13.3	26.8	32.1	30.1	16.8	33.4	28.6			
SJB3	10	53.2	45.3	53.3	521.1	478.8	619.5	12	10.9	12.4	12.5	10	12.7	29.5	34	29.7	24.7	24.9	23.8			
SJB3	11	50.5	49.8	44.8	541.3	515.9	419.9	12.9	11.6	10.7	11.9	11.5	12.5	30.3	29.6	31.2	22.6	30.8	44.2			
SJB3	12	57.5	43.9	47.5	523	340.5	518.9	12.8	10.3	12.1	12.9	9.9	11.4	34.5	29.7	26.3	24.4	24.7	28.7			
SJB3	13	54.6	46.9	48	641.1	528.5	396.5	12.7	10	12.6	11.9	10.5	11.5	34.7	28.3	27.1	30.2	23.6	28.4			
SJB3	14	55	40.8	51.5	520.8	325.9	434.1	13.8	11.1	10.7	11.6	9.6	12.4	29.6	25.9	27.3	23.1	24.5	26.9			
SJB3	15	53.9	48.8	52.8	488	533	565.5	13.9	11.5	10.7	12.2	11.7	11.9	29.4	30.2	32.4	32.6	34.3	36.5			
SJB3	16	51	46.9	55.7	489	462.4	654.6	12	11.4	12	12.5	10.8	13.5	30	33.6	31.7	20.1	24.7	34.6			
SJB3	17	57	51.5	44.3	505	416.5	432	12.5	12.2	10.1	12.4	11.3	10.9	31.2	28.2	37.2	26.5	23.2	36.3			
SJB3	18	53.8	52.8	48.8	482.1	560.5	429.5	13.5	11.7	11.4	10.7	10.5	13.1	28.2	29.6	28.2	21.6	27.5	29.4			
SJB3	19	44.8	49.4	46.9	523.4	403.7	540.9	12.8	11.6	11.9	12.6	10.9	12.1	32	26.8	29.3	25.1	25.4	35.3			
SJB3	20	49.2	48.7	50	533.5	487.5	612.9	12.4	12	13.2	12.1	11.9	12.7	34.2	28.4	29.2	27.8	26.2	23.6			
Mean		52.2	49.0	50.0	522.7	514.4	548.7	12.9	11.8	11.8	12.1	11.2	12.6	30.6	30.3	30.0	25.2	28.3	32.2	137C	138A	143A
Stdev		3.3	3.3	3.2	85.4	96.0	88.7	1.1	1.0	0.9	0.9	0.8	0.8	2.5	2.5	2.8	4.4	3.9	5.7			
SAL4	1	57.0	48.6	45.0	558.0	636.9	480.0	13.4	13.9	11.6	12.0	11.0	10.4	27.0	31.0	23.2	20.0	32.4	26.1			
SAL4	2	51.5	49.2	54.3	669.2	587.2	580.0	14.0	12.0	13.7	13.1	10.9	10.8	28.1	29.9	24.8	26.3	32.1	27.2			
SAL4	3	56.8	52.4	50.2	684.0	621.3	443.6	14.2	13.8	12.5	12.4	11.0	11.4	31.4	30.0	24.0	27.5	29.2	29.1			
SAL4	4	62.3	49.8	53.9	613.0	617.2	545.8	14.0	14.0	13.3	12.5	11.8	11.8	30.0	35.1	12.7	26.2	36.3	19.6			
SAL4	5	58.5	50.7	51.0	676.0	623.0	666.7	13.5	13.0	13.2	12.7	10.0	11.9	29.8	31.2	28.3	25.4	30.8	27.5			

2006023

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- Tellmark

Data Set Plant Charachteristics (continue)

Trial#	Plt#	Spread of Frame Leaves (cm)			Head Weight (grams)			Head Diameter (cm)			Head Height (cm)			Core Diameter (mm)			Core Length (mm)			Color (RHS)		
		Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark
SAL4	6	51.4	50.9	52.8	516.0	483.5	356.0	13.3	12.5	12.1	11.7	10.5	10.8	29.9	31.1	19.5	31.2	32.4	22.7			
SAL4	7	56.7	48.7	54.3	515.8	504.0	753.1	13.7	13.0	14.1	11.2	12.3	13.0	30.1	29.2	30.2	24.4	27.8	31.4			
SAL4	8	54.8	49.8	48.5	329.9	588.5	586.6	12.9	13.0	14.4	9.8	11.9	11.2	18.7	34.1	30.3	11.9	40.0	25.6			
SAL4	9	52.0	52.9	48.2	422.4	602.1	580.0	13.2	13.5	14.7	11.4	10.0	11.3	25.6	30.0	25.4	23.7	25.5	28.5			
SAL4	10	53.8	54.8	52.7	441.8	505.5	476.6	13.4	13.6	12.1	10.9	10.6	11.9	24.5	26.2	26.2	23.2	27.4	29.4			
SAL4	11	54.5	49.5	47.4	410.0	484.5	708.0	12.0	13.4	13.4	10.5	10.7	12.3	24.2	29.3	25.3	20.0	26.2	28.6			
SAL4	12	51.2	48.7	52.9	440.0	572.8	655.0	12.3	13.2	12.8	11.5	11.1	12.6	27.2	31.7	26.2	23.8	34.3	24.7			
SAL4	13	51.0	48.6	54.8	447.1	741.2	839.0	12.5	14.4	14.2	12.2	10.5	13.6	28.8	32.8	25.7	22.3	54.6	20.8			
SAL4	14	47.8	49.3	52.6	638.0	786.3	688.1	13.2	12.5	14.6	12.2	11.6	10.5	27.6	34.8	25.8	21.4	35.7	26.1			
SAL4	15	54.9	48.5	47.4	463.8	473.8	719.7	14.0	12.0	14.5	13.0	11.2	11.3	22.8	25.6	30.1	20.7	19.9	22.4			
SAL4	16	58.0	48.9	52.5	664.2	673.7	554.3	14.0	13.8	12.8	12.0	12.2	10.9	35.0	29.1	28.3	33.2	26.5	22.6			
SAL4	17	55.6	50.8	51.4	513.5	470.5	638.8	13.7	13.0	14.1	10.9	12.1	10.5	24.9	30.0	26.3	23.1	27.2	24.8			
SAL4	18	51.5	50.5	51.3	658.0	494.2	693.2	15.5	12.5	13.3	12.0	10.8	11.1	33.4	29.1	28.2	26.2	24.6	27.6			
SAL4	19	49.7	52.4	52.5	409.8	508.0	391.6	12.5	13.2	11.6	11.2	11.7	10.2	25.8	30.2	18.7	22.6	27.5	14.9			
SAL4	20	48.8	51.9	47.8	495.6	430.8	690.0	12.7	13.0	14.5	11.4	11.5	11.3	28.2	29.9	29.6	23.7	30.2	27.4			
Mean		53.9	50.3	51.1	528.3	570.3	602.3	13.4	13.2	13.4	11.7	11.2	11.4	27.7	30.5	25.4	23.8	31.0	25.4	137C	138A	143A
StDev		3.7	1.8	2.8	109.4	95.2	126.3	0.8	0.7	1.0	0.8	0.7	0.9	3.7	2.4	4.4	4.4	7.2	3.9			
Mean tot.		56.4	51.4	52.3	714.4	664.3	690.8	14.3	13.1	13.5	13.6	12.9	13.0	31.7	32.4	31.1	38.8	42.1	37.1	137C	138A	143A
StDev tot.		5.2	3.2	3.6	232.2	164.0	187.7	1.5	1.3	1.5	2.1	1.9	1.5	4.6	3.0	5.2	19.2	16.1	12.2			

- Tellmark

Data Bolting Charachteristics

Location : San Juan Bautista, CA Sow Date: 5/24/2005

Plt#	# Days to Seed Stalk Emergence			Height of Mature Seed Stalk (cm)			Spread of Bolter Plant (cm)		
	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark	Tellmark	Telluride	Hallmark
1	98	84	91	114.96	100.32	89.28	24.48	23.52	15.6
2	100	87	98	107.52	113.52	108.96	30.48	21.36	18.96
3	98	101	98	106.08	126.72	75.36	24.72	22.32	12.48
4	98	100	91	104.4	129.36	72.72	23.76	22.8	10.56
5	98	91	91	106.32	115.68	89.28	17.52	19.44	16.32
6	98	84	91	104.4	115.92	79.92	23.04	22.08	18.72
7	100	90	91	96.72	118.8	94.8	23.28	20.64	18.72
8	98	90	91	123.6	126.72	98.88	21.36	21.6	16.08
9	98	90	98	114	121.92	106.32	23.52	24.48	16.32
10	98	98	91	113.52	111.36	89.28	19.92	19.92	15.36
11	91	90	88	119.76	119.52	82.32	20.16	22.08	16.56
12	91	91	98	123.12	123.12	98.88	19.68	19.68	16.32
13	98	90	98	110.88	128.4	107.76	23.52	21.12	18
14	89	98	91	115.2	128.16	-	17.28	20.16	-
15	89	91	86	123.6	118.8	95.04	20.64	19.92	16.56
16	97	108	98	113.28	132.48	96.72	20.16	20.4	19.68
17	98	98	86	114.24	130.56	100.8	22.56	23.52	23.76
18	89	100	86	119.76	113.04	94.08	24.72	22.08	19.44
19	98	91	91	125.04	128.16	88.32	24.48	22.8	16.8
20	87	84	84	120	115.2	110.64	22.08	21.84	18.24
21	100	91	86	119.04	118.8	121.92	24.72	20.64	21.36
22	98	-	84	111.6	-	109.2	24.96	-	24.48
23	98	-	91	112.32	-	115.68	27.12	-	21.6
24	89	-	90	113.52	-	114.24	19.44	-	17.52
Mean	95.7	92.7	91.2	113.9	120.8	97.4	22.7	21.5	17.8
StDev	4.3	6.3	4.7	7.2	8.0	13.1	3.0	1.4	3.2

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
ENZA ZADEN BEHEER B.V.	14.2063	TELLMARK
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	**5. TELEPHONE** *(Include area code)*	**6. FAX** *(Include area code)*
POSTBUS 7, 1600 AA ENKHUIZEN HALING 1e, 1602 DB ENKHUIZEN THE NETHERLANDS	+.31.228.315.844	+.31.228.315.854
	7. PVPO NUMBER 200600228	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** ☑ **YES** ☐ **NO**

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** ☐ **YES** ☑ **NO**

THE NETHERLANDS

10. Is the applicant the original owner? ☑ **YES** ☐ **NO** **If no, please answer <u>one</u> of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☐ **YES** ☐ **NO** **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ **YES** ☐ **NO** **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S)	ADDRESS *(Street and No. or RD No., City, State, and Zip Code and Country)*	TEMPORARY OR EXPERIMENTAL DESIGNATION
ENZA ZADEN BEHEER B.V.	POSTBUS 7, 1600 AA ENKHUIZEN, HALING 1e, 1602 DB ENKHUIZEN THE NETHERLANDS	14.2063
		VARIETY NAME TELLMARK
NAME OF OWNER REPRESENTATIVE (S)	**ADDRESS *(Street and No. or RD No., City, State, and Zip Code and Country)***	FOR OFFICIAL USE ONLY
MEL HOLLAND	PO Box 866, 525 LUCY BROWN LANE SAN JUAN BAUTISTA, CA 95045	PVPO NUMBER 200600228

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Mel Holland
Signature

06/05/2006
Date